```
ubuntu@ubuntu:~$ ls
a1    Desktop doc    Downloads mydir_tar.tar Pictures Templates
atharva dir1    documents Music    my_docs    Public Videos
backup dir2    Documents mydir    my_docs.zip    snap
ubuntu@ubuntu:~$ touch report.pdf
ubuntu@ubuntu:~$ ls
a1    Desktop doc    Downloads mydir_tar.tar Pictures    snap
atharva dir1    documents Music    my_docs    Public    Templates
backup dir2    Documents mydir    my_docs.zip    report.pdf Videos
ubuntu@ubuntu:~$ cp -r report.pdf /home/ubuntu/documents
ubuntu@ubuntu:~$ cd doc
doc/    documents/
```

2.

The rm command can be used to delete non-empty directories as well but rmdir command is used to delete only empty directories.

3

4

```
ubuntu@ubuntu:~/projects$ pwd
/home/ubuntu/projects
```

5

```
ubuntu@ubuntu:~/projects$ touch log1.txt log2.txt log3.txt
ubuntu@ubuntu:~/projects$ ls
data.csv log1.txt log2.txt log3.txt
```

```
ubuntu@ubuntu:~$ cd doc
ubuntu@ubuntu:~/doc$ touch temp.log
ubuntu@ubuntu:~/doc$ ls
f1.txt t1.sh t1.txt t2.txt t3.txt temp.log text.sh
ubuntu@ubuntu:~/doc$ rm temp.log
ubuntu@ubuntu:~/doc$ ls
f1.txt t1.sh t1.txt t2.txt t3.txt text.sh
ibuntu@ubuntu:~/doc$ pwd
home/ubuntu/doc
ubuntu@ubuntu:~/doc$ ls -lh
total 24K
-rw-rw-r-- 1 ubuntu ubuntu 280 Aug 30 12:59 f1.txt
-rw-rw-r-- 1 ubuntu ubuntu 1.1K Aug 30 12:52 t1.sh
-rw-rw-r-- 1 ubuntu ubuntu
                             13 Aug 30 23:02 t1.txt
-rw-rw-r-- 1 ubuntu ubuntu
                              6 Mar 14
                                        2024 t2.txt
-rw-rw-r-- 1 ubuntu ubuntu
                             28 Mar 14
                                        2024 t3.txt
                            305 Mar 14
-rw-rw-r-- 1 ubuntu ubuntu
                                        2024 text.sh
```

## 10.output indicates the file type.

```
ubuntu@ubuntu:~$ ls -a /etc
                        hdparm.conf
                                              profile
                        host.conf
                        hostid
adduser.conf
                                              protocols
                        hostname
                                              .pwd.lock
                        hosts
                        hosts.allow
anacrontab
                        hosts.deny
apg.conf
                        inputrc
bash.bashrc
bash completion
bindresvport.blacklist iproute2
                                              request-key.conf
                        issue
                        issue.net
                                              resolv.conf
brlapi.key
                        kerneloops.conf
brltty.conf
                                              грс
```

```
ubuntu@ubuntu:/etc$ ls -d .*
pwd.lock .resolv.conf.systemd-resolved.bak .updated
```

```
ubuntu@ubuntu:~$ man find> find_manual.txt
ubuntu@ubuntu:~$ ls
        Desktop documents find_manual.txt my_docs
                 Documents Music
                                             new_project report.pdf workspace
ubuntu@ubuntu:~$ bash find_manual.txt
find_manual.txt: line 1: syntax error near unexpected token `1'
find_manual.txt: line 1: `FIND(1)
                                                      General Commands Manual
               FIND(1)'
ubuntu@ubuntu:~$ cat find manual.txt
FIND(1)
                            General Commands Manual
                                                                         FIND(1)
NAME
       find - search for files in a directory hierarchy
SYNOPSIS
       find [-H] [-L] [-P] [-D debugopts] [-Olevel] [starting-point...] [expres-
       sionl
DESCRIPTION
```

```
ubuntu@ubuntu:~$ mkdir manuals
ubuntu@ubuntu:~$ cp -r find_manuals.txt /home/ubuntu/manuals
cp: cannot stat 'find_manuals.txt': No such file or directory
ubuntu@ubuntu:~$ cp -r find_manual.txt /home/ubuntu/manuals
ubuntu@ubuntu:~$ cd manuals/
ubuntu@ubuntu:~/manuals$ ls
find_manual.txt
ubuntu@ubuntu:~/manuals$ mv find_manual.txt find_help.txt
ubuntu@ubuntu:~/manuals$ ls
find_help.txt
```

```
ubuntu@ubuntu:~/manuals$ wc find_help.txt
1719 11916 90928 find_help.txt
ubuntu@ubuntu:~/manuals$
```

```
ubuntu@ubuntu:~/manuals$ history 15
      head 15
  597
  598 head +n 15 find manual.txt
 599* head -n find_manual.txt
 600 tail -n 8 find manual.txt
      mkdir manuals
 601
 602 cp -r find manuals.txt /home/ubuntu/manuals
 603 cp -r find manual.txt /home/ubuntu/manuals
 604 cd manuals/
 605
      ls
 606
      mv find_manual.txt find_help.txt
 607
      ls
 608
      cd ~
 609 cd manuals/
 610 wc find_help.txt
 611 history 15
```

```
ubuntu@ubuntu:~$ zip -r Desktop_zip.zip Desktop
  adding: Desktop/ (stored 0%)
 adding: Desktop/ubuntu-desktop-bootstrap ubuntu-desktop-bootstrap.desktop (deflate
d 41%)
ubuntu@ubuntu:~$ ls
                     find_manual.txt my_docs
manuals my_docs.zip
                                                       report.pdf workspace
ubuntu@ubuntu:~$ unzip -l Desktop_zip.zip
Archive: Desktop_zip.zip
  Length Date Time
                             Name
      0 2025-08-29 16:38 Desktop/
      460 2025-08-29 16:38 Desktop/ubuntu-desktop-bootstrap_ubuntu-desktop-bootst
rap.desktop
     460
                             2 files
ubuntu@ubuntu:~$
23
ubuntu@ubuntu:~/doc$ chmod 700 script.sh
ubuntu@ubuntu:~/doc$ ls -a script.sh
script.sh
ubuntu@ubuntu:~/doc$ ls -lh script.sh
-rwx----- 1 ubuntu ubuntu 0 Aug 31 02:55 script.sh
24
ubuntu@ubuntu:~/doc$ sudo chown admin database.txt
ubuntu@ubuntu:~/doc$ ls -lh
total 24K
-rw-rw-r-- 1 admin ubuntu 0 Aug 31 02:57 database.txt
-rw-rw-r-- 1 ubuntu ubuntu 280 Aug 30 12:59 f1.txt
-rwx----- 1 ubuntu ubuntu 0 Aug 31 02:55 script.sh
-rw-rw-r-- 1 ubuntu ubuntu 1.1K Aug 30 12:52 t1.sh
-rw-rw-r-- 1 ubuntu ubuntu 13 Aug 30 23:02 t1.txt
```

-rw-rw-r-- 1 ubuntu ubuntu 6 Mar 14 2024 t2.txt -rw-rw-r-- 1 ubuntu ubuntu 28 Mar 14 2024 t3.txt -rw-rw-r-- 1 ubuntu ubuntu 305 Mar 14 2024 text.sh

```
ubuntu@ubuntu:~$ top
top - 03:08:55 up 17:16,  1 user,  load average: 0.00, 0.04, 0.02
Tasks: 232 total, 1 running, 231 sleeping, 0 stopped, 0 zombie
%Cpu(s): 0.3 us, 0.5 sy, 0.0 ni, 99.0 id, 0.0 wa, 0.0 hi, 0.2 si, 0.0 st
MiB Mem :
            2950.6 total,
                                             2518.1 used,
                               77.0 free,
                                                             1345.8 buff/cache
MiB Swap:
               0.0 total.
                                0.0 free.
                                                0.0 used.
                                                              432.5 avail Mem
    PID USER
                             VIRT
                                     RES
                                             SHR S %CPU %MEM
                                                                    TIME+ COMMAND
                  PR NI
   2756 ubuntu
                  20
                       0 4941964 354532
                                          50656 S
                                                     2.3
                                                         11.7
                                                               17:55.11 gnome-shell
   2440 ubuntu
                  20
                       0 354368 68212 22356 S
                                                           2.3 11:40.40 Xorg
                                                     1.7
 19782 ubuntu
                  20 0
                          23204
                                    5932
                                           3756 R
                                                     0.7
                                                           0.2
                                                                  0:00.27 top
                                                                  1:48.30 ibus-daemon
  2917 ubuntu
                  20 0 398608
                                    9032
                                            2700 S
                                                     0.3
                                                           0.3
                  20 0 853284
  4757 ubuntu
                                   30996
                                           17788 S
                                                     0.3
                                                           1.0
                                                                  2:44.84 gnome-termi+
                                                                  0:00.01 kworker/u16+
 19780 root
                  20 0
                                               0 I
                               0
                                                     0.3
                                                           0.0
                                      0
                                            4028 S
                                                                  0:20.07 systemd
      1 root
                  20 0
                            23388
                                    9148
                                                     0.0
                                                           0.3
                                                                  0:00.11 kthreadd
                                               0 S
      2 root
                      0
                  20
                               0
                                       0
                                                     0.0
                                                           0.0
                      0
                                               0 S
                                                                  0:00.00 pool workqu+
      3 root
                  20
                                0
                                       0
                                                     0.0
                                                           0.0
     4 root
                  0 - 20
                                0
                                       0
                                               0 I
                                                     0.0
                                                           0.0
                                                                  0:00.00 kworker/R-r+
     5 root
                   0 - 20
                                0
                                       0
                                               0 I
                                                     0.0
                                                           0.0
                                                                  0:00.00 kworker/R-s+
                   0 - 20
                                0
                                       0
                                               0 I
                                                     0.0
                                                           0.0
                                                                  0:00.08 kworker/R-k+
     6 root
                   0 -20
                                       0
                                0
                                               0 I
                                                     0.0
                                                           0.0
                                                                  0:00.00 kworker/R-s+
      7 root
                   0 - 20
                                0
                                       0
                                               0 I
                                                     0.0
                                                           0.0
                                                                  0:00.00 kworker/R-n+
      8 root
```

```
ubuntu@ubuntu:~$ sudo date -s "2025-01-15 2:30 PM"
Wed Jan 15 02:30:00 PM UTC 2025
```

```
ubuntu@ubuntu:~$ uptime
 09:47:49 up 6 min, 1 user, load average: 0.29, 1.09, 0.65
ubuntu@ubuntu:~$ df
Filesystem
              1K-blocks
                           Used Available Use% Mounted on
tmpfs
                 440924
                           1900
                                   439024
                                            1% /run
/dev/sr0
                6191494 6191494
                                        0 100% /cdrom
                 2204608 218560 1986048 10% /
/cow
                              8 2204600 1% /dev/shm
tmofs
                 2204608
tmpfs
                    5120
                              8
                                     5112 1% /run/lock
tmpfs
                 2204608
                         175988
                                   2028620 8% /tmp
                 440920
                            164
                                  440756 1% /run/user/1000
tmpfs
ubuntu@ubuntu:~$ du
0
        ./codes
        ./atharva
0
0
        ./dir2
0
        ./dir1
1284
        ./snap/snapd-desktop-integration/common/.cache/mesa_shader_cache
32
        ./snap/snapd-desktop-integration/common/.cache/fontconfig
8
        ./snap/snapd-desktop-integration/common/.cache/immodules
        ./snap/snapd-desktop-integration/common/.cache/gio-modules
ubuntu@ubuntu:~$ free
                                                shared buff/cache
                                      free
                                                                    available
               total
                           used
            4409220
                                     122816
Mem:
                        1854580
                                                413004
                                                           3092792
                                                                      2554640
Swap:
                  0
                              0
                                         0
30
 ubuntu@ubuntu:~/atharva$ cd ~
 ubuntu@ubuntu:~$ cd atharva
 ubuntu@ubuntu:~/atharva$ ln original.txt hard_copy.txt
 ubuntu@ubuntu:~/atharva$ ls
hard_copy.txt original.txt
31
ubuntu@ubuntu:~/atharva$ ln -s source.txt sym_link.txt
ubuntu@ubuntu:~/atharva$ ls
hard_copy.txt original.txt source.txt sym_link.txt
32
33
36
ubuntu@ubuntu:~/old_data$ touch d1.txt d2.txt
ubuntu@ubuntu:~/old_data$ ls
d1.txt d2.txt
ubuntu@ubuntu:~/old_data$ cd ~
ubuntu@ubuntu:~$ rm -r old data
ubuntu@ubuntu:~$ ls
```

ubuntu@ubuntu:~\$ ls -a /var/log

```
casper.log
                                       fontconfig.log
                 cloud-init.log
                                                       README
 alternatives.log cloud-init-output.log
                                       gpu-manager.log
 apport.log
                                                       syslog
 auth.log
                                       kern.log
 boot.log
                 dmesg
 bootstrap.log
                 dpkg.log
                                       lastlog
 btmp
                 faillog
 ubuntu@ubuntu:~$ ls -lh /var/log
 total 2.1M
                                              25K Aug 5 17:38 alternatives.l
 -rw-r--r-- 1 root
                              root
 og
 -rw-r---- 1 root
                              adm
                                                0 Sep 2 09:55 apport.log
                                               53 Aug 5 17:38 apt
 drwxr-xr-x 1 root
                              root
                                              17K Sep 2 19:45 auth.log
 -rw-r---- 1 syslog
                              adm
 -rw----- 1 root
                              root
                                              15K Sep 2 09:55 boot.log
                                             116K Aug 5 16:48 bootstrap.log
 -rw-r--r-- 1 root
                              root
                                                0 Aug 5 16:48 btmp
 -rw-rw---- 1 root
                              utmp
                                              2.1K Sep 2 09:54 casper.log
 -rw-r--r-- 1 root
                               root
 -rw-r---- 1 syslog
                              adm
                                              47K Sep 2 09:56 cloud-init.log
38
ubuntu@ubuntu:~$ sudo touch /home/ubuntu/opt/myapp/config/config.txt
ubuntu@ubuntu:~$ cd /home/ubuntu/opt/myapp/config
ubuntu@ubuntu:~/opt/myapp/config$ ls
config.txt
ubuntu@ubuntu:~/opt/myapp/config$
39
40
ubuntu@ubuntu:~$ chmod 755 myprojects
ubuntu@ubuntu:~$ ls -ld myprojects
drwxr-xr-x 2 ubuntu ubuntu 40 Sep 2 20:09 myprojects
ubuntu@ubuntu:~$
41
ubuntu@ubuntu:~$ tar -cvf backup.tar.gz documents
tar: documents: Cannot stat: No such file or directory
tar: Exiting with failure status due to previous errors
ubuntu@ubuntu:~$ tar -cvf backup.tar.gz Documents
Documents/
Documents/f2.txt
Documents/f1.txt
ubuntu@ubuntu:~$ ls
config.txt
ubuntu@ubuntu:~S
```

```
ubuntu@ubuntu:~/dir1$ chmod 664 shared.txt
ubuntu@ubuntu:~/dir1$ ls -l shared.txt
-rw-rw-r-- 1 ubuntu ubuntu 0 Sep 2 20:17 shared.txt
ubuntu@ubuntu:~/dic15
43
ubuntu@ubuntu:~/dir1$ touch video.mp4
ubuntu@ubuntu:~/dir1$ ls -lh video.mp4
-rw-rw---- 1 ubuntu ubuntu 0 Sep 2 20:21 video.mp4
44
ibuntu@ubuntu:~/dir1$ find /home -type f -mtime -7
find: '/home/admin': Permission denied
ind: '/home/installer': Permission denied
home/ubuntu/backup.tar.gz
home/ubuntu/opt/myapp/config/config.txt
home/ubuntu/config.txt
home/ubuntu/dir_tar.tar
home/ubuntu/dir1 tar.tar
home/ubuntu/linux.cd/f2.txt/
home/ubuntu/linux.cd/f1.txt
home/ubuntu/linux.cd/testperms.txt
home/ubuntu/.bash history
home/ubuntu/dir1/video.mp4
home/ubuntu/dir1/shared.txt
home/ubuntu/dir1/a.txt
home/ubuntu/dir1/b.txt
home/ubuntu/atharva/source.txt
home/ubuntu/atharva/hard copy.txt
home/ubuntu/atharva/original.txt
home/ubuntu/.sudo as admin successful
ubuntu@ubuntu:~/dir1$ touch version1.txt version2.txt
ubuntu@ubuntu:~/dir1$ ls
a.txt b.txt shared.txt version1.txt version2.txt video.mp4
ubuntu@ubuntu:~/dir1$ diff version1.txt version2.txt
46
ubuntu@ubuntu:~/photos$ touch a.jpg
ubuntu@ubuntu:~/photos$ ls
a.jpg
ubuntu@ubuntu:~/photos$ rsync photos /home/ubuntu/backup/photos
rsync: [sender] link_stat "/home/ubuntu/photos/photos" failed: No such file or d
sync error: some files/attrs were not transferred (see previous errors) (code 2
) at main.c(1338) [sender=3.2.7]
ubuntu@ubuntu:~/photos$ ls ~/home/ubuntu/backup/photos
```

```
ubuntu@ubuntu:~/atharva$ nano original.txt
ubuntu@ubuntu:~/atharva$ cut -c -10-25 original.txt
cut: invalid byte or character range
Try 'cut --help' for more information.
ubuntu@ubuntu:~/atharva$ cut -c 10-25 original.txt
ne my name is At
```

49

```
ubuntu@ubuntu:~/dir1$ echo "function is the function which is used in function">
script.js
ubuntu@ubuntu:~/dir1$ grep -o "function" script.js | wc -l
3
ubuntu@ubuntu:~/dir1$
```

52

```
ubuntu@ubuntu:~/dir1$ echo "I'm Atharva">a.txt
ubuntu@ubuntu:~/dir1$ echo "I'm Atharva">application.log
ubuntu@ubuntu:~/dir1$ tail -f /home/ubuntu/dir/application.log
tail: cannot open '/home/ubuntu/dir/application.log' for reading: No such file o
r directory
tail: no files remaining
ubuntu@ubuntu:~/dir1$ tail -f /home/ubuntu/dir1/application.log
I'm Atharva
^C
ubuntu@ubuntu:~/dir1$ echo "And im from Ratnagiri">>application.log
ubuntu@ubuntu:~/dir1$ tail -f /home/ubuntu/dir1/application.log
I'm Atharva
And im from Ratnagiri
```

```
ubuntu@ubuntu:~$ find / -type f -size +100M
find: '/etc/credstore': Permission denied
find: '/etc/credstore.encrypted': Permission denied
find: '/etc/cups/ssl': Permission denied
find: '/etc/polkit-1/rules.d': Permission denied
find: '/etc/ssl/private': Permission denied
find: '/etc/sssd': Permission denied
find: '/etc/sudoers.d': Permission denied
find: '/home/admin': Permission denied
find: '/home/installer': Permission denied
find: '/proc/tty/driver': Permission denied
/proc/kcore
find: '/proc/1/task/1/fd': Permission denied
find: '/proc/1/task/1/fdinfo': Permission denied
```

```
ubuntu@ubuntu:~/dir1$ echo "Hello world">d.txt
ubuntu@ubuntu:~/dir1$ cat d.txt
Hello world
ubuntu@ubuntu:~/dir1$
```

56

```
ubuntu@ubuntu:~$ sudo find /home -user john
/home/john
/home/john/.profile
/home/john/.bashrc
/home/john/.bash_logout
```

57 58

```
ubuntu@ubuntu:~$ du -h . | sort -rh
17M
        ./.cache
14M
        ./.cache/tracker3/files
14M
        ./.cache/tracker3
4.3M
        ./snap
2.9M
        ./snap/ubuntu-desktop-bootstrap/common/.cache
        ./snap/ubuntu-desktop-bootstrap/common
2.9M
2.9M
        ./snap/ubuntu-desktop-bootstrap
2.2M
        ./.cache/mesa_shader_cache_db
1.6M
        ./snap/ubuntu-desktop-bootstrap/common/.cache/mesa_shader_cache
1.4M
        ./snap/snapd-desktop-integration/common/.cache
1.4M
        ./snap/snapd-desktop-integration/common
        ./snap/snapd-desktop-integration
1.4M
        ./snap/ubuntu-desktop-bootstrap/common/.cache/fontconfig
1.3M
1.3M
        ./snap/snapd-desktop-integration/common/.cache/mesa_shader_cache
        ./.local
572K
        ./.local/share
564K
548K
        ./.cache/mesa_shader_cache_db/part0
412K
        ./.cache/gstreamer-1.0
        ./.cache/ibus/bus
356K
356K
        ./.cache/ibus
        ./.local/share/nautilus/tags
352K
352K
         /.local/share/nautilus
```

61.

```
ubuntu@ubuntu:~/dir1$ compgen -c
alert
едгер
fgrep
grep
la
u
ls
if
then
else
elif
fi
case
esac
for
select
while
```

```
ubuntu@ubuntu:~/dir1$ diff a.txt c.txt
1c1
< I'm Atharva
---
> Hello world
```

64

```
ubuntu@ubuntu:~/dir1$ top
top - 22:59:00 up  7:34,  1 user,  load average: 0.00, 0.01, 0.00
Tasks: 228 total, 1 running, 227 sleeping, 0 stopped, 0 zombie
%Cpu(s): 0.1 \text{ us}, 0.1 \text{ sy}, 0.0 \text{ ni}, 99.7 \text{ id}, 0.0 \text{ wa}, 0.0 \text{ hi}, 0.1 \text{ si}, 0.0 \text{ st}
MiB Mem :
            2950.6 total,
                                           1781.1 used,
                            157.2 free,
                                                             1526.9 buff/cache
MiB Swap:
               0.0 total,
                                0.0 free,
                                                0.0 used.
                                                             1169.6 avail Mem
   PID USER
                                             SHR S %CPU %MEM
                                                                    TIME+ COMMAND
                  PR NI
                             VIRT
                                     RES
                       0 324616 96732 60272 S
   2515 ubuntu
                  20
                                                     0.5
                                                            3.2
                                                                  4:56.50 Xorg
   2784 ubuntu
                  20
                        0 4842620 354900 129416 S
                                                     0.5
                                                           11.7
                                                                  6:49.38 gnome-s+
     50 root
                  20
                        0
                                0
                                       0
                                               0 S
                                                     0.3
                                                            0.0
                                                                  0:12.44 kcompac+
  8423 root
                  20 0
                                0
                                        0
                                               0 I
                                                     0.3
                                                            0.0
                                                                  0:00.78 kworker+
   8703 ubuntu
                  20 0
                            23204
                                     6048
                                            3872 R
                                                     0.3
                                                            0.2
                                                                  0:00.15 top
                  20 0
                            23544
                                   14604
                                            9612 S
                                                     0.0
                                                            0.5
                                                                  0:12.32 systemd
      1 root
                                                                  0:00.10 kthreadd
                  20
                      0
                                               0 S
      2 root
                                0
                                        0
                                                     0.0
                                                            0.0
                                               0 S
                      0
                                        0
      3 root
                  20
                                0
                                                     0.0
                                                            0.0
                                                                  0:00.00 pool_wo+
      4 root
                   0 -20
                                0
                                        0
                                               0 I
                                                     0.0
                                                            0.0
                                                                  0:00.00 kworker+
                   0 -20
      5 root
                                0
                                        0
                                               0 I
                                                     0.0
                                                            0.0
                                                                  0:00.00 kworker+
                                0
      6 root
                   0 -20
                                       0
                                               0 I
                                                     0.0 0.0 0:00.00 kworker+
```

```
ubuntu@ubuntu:~$ find . -type f -size 0
./photos/a.jpg
./opt/myapp/config/config.txt
./config.txt
./linux.cd/testperms.txt
./dir2/a.txt
./dir1/version2.txt
./dir1/version1.txt
./dir1/shared.txt
./dir1/b.txt
```

```
ubuntu@ubuntu:~/dir1$ ls
application.log b.txt d.txt shared.txt version2.txt
a.txt c.txt script.js version1.txt video.mp4
ubuntu@ubuntu:~/dir1$ ls -lh a.txt
-rw-rw---- 1 ubuntu ubuntu 12 Sep 2 22:11 a.txt
ubuntu@ubuntu:~/dir1$ touch -t 202505041804 a.txt
ubuntu@ubuntu:~/dir1$ ls -lh a.txt
-rw-rw---- 1 ubuntu ubuntu 12 May 4 18:04 a.txt
ubuntu@ubuntu:~/dir1$
```

68

```
ubuntu@ubuntu:~$ find /home/ubuntu/ -xtype l
/home/ubuntu/snap/firmware-updater/common/.cache/immodules/im-xim.so
/home/ubuntu/snap/firmware-updater/common/.cache/immodules/im-waylandgtk.so
/home/ubuntu/snap/firmware-updater/common/.cache/immodules/im-wayland.so
/home/ubuntu/snap/firmware-updater/common/.cache/immodules/im-viqr.so
/home/ubuntu/snap/firmware-updater/common/.cache/immodules/im-ti-et.so
/home/ubuntu/snap/firmware-updater/common/.cache/immodules/im-ti-er.so
/home/ubuntu/snap/firmware-updater/common/.cache/immodules/im-thai.so
/home/ubuntu/snap/firmware-updater/common/.cache/immodules/im-multipress.so
/home/ubuntu/snap/firmware-updater/common/.cache/immodules/im-ipa.so
home/ubuntu/snap/firmware-updater/common/.cache/immodules/im-inuktitut.so"
home/ubuntu/snap/firmware-updater/common/.cache/immodules/im-ibus.so/
/home/ubuntu/snap/firmware-updater/common/.cache/immodules/im-fcitx.so
/home/ubuntu/snap/firmware-updater/common/.cache/immodules/im-cyrillic-translit.
/home/ubuntu/snap/firmware-updater/common/.cache/immodules/im-cedilla.so
home/ubuntu/snap/firmware-updater/common/.cache/immodules/im-broadway.so/
/home/ubuntu/snap/firmware-updater/common/.cache/immodules/im-am-et.so
```

```
ubuntu@ubuntu:~/dir1$ ls
a.txt b.txt script.js shared.txt version1.txt version2.txt video.mp4
ubuntu@ubuntu:~/dir1$ cp -r a.txt /home/ubuntu/dir2
ubuntu@ubuntu:~/dir1$ ls ~/dir2
a.txt
ubuntu@ubuntu:~/dir1$ ls -l a.txt
-rw-rw---- 1 ubuntu ubuntu 0 Sep 2 19:33 a.txt
ubuntu@ubuntu:~/dir1$
```

```
ubuntu@ubuntu:~$ cd dir1
ubuntu@ubuntu:~/dir1$ touch logfile.log
ubuntu@ubuntu:~/dir1$ tail -n 50 -f /home/ubuntu/dir1/logfile.log
^C
ubuntu@ubuntu:~/dir1$ nano logfile.log
ubuntu@ubuntu:~/dir1$ tail -n 50 -f /home/ubuntu/dir1/logfile.log
echo "
Looks like there's a problem with your internet connection.

We can't connect to the server at www.mozilla.org.

What can you do about it?

Try connecting on a different device.
Check your modem or router.
Disconnect and reconnect to Wi-Fi."
```